



STIC Search Report

EIC 1700

STIC Database Tracking Number: 165488

TO: Richard Crispino
Location: REM 8D55
Art Unit : 1700
September 13, 2005

Case Serial Number: 10/684324

From: Mrs. Kendra Banks
Location: EIC 1700
REM 4B28
Phone: 571-272-2516

Kendra.Mellerson@uspto.gov

Search Notes

No Cases Reported

US 6,493,896

Mellerson, Kendra

From: Crispino, Richard
Sent: Monday, September 12, 2005 7:32 AM
To: STIC-EIC1700
Subject: litigation search

Please do a litigation search for reissue 10/684,324. The patent number is 6,493,896.

Thank you

Rick Crispino
REM 8D55
SPRE TC 1700

Current session 13/09/2005

Query/Command : N

..FILE / ..INFO / ..GUIDE

Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 0,72
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.77 USD
Cost estimated for the last database search :	0.77 USD
Estimated total session cost :	0.77 USD

Selected file: PLUSPAT

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Comprehensive Worldwide Patents database
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
Announcing enhanced searchability of Relevancy Codes in Search Reports
for EP, WO and FR patents. For more details see below and on QO website
-To retrieve set of high relevancy X coded cited patents, use xctx=yes
-To extract cited patents with only high relevancy code, use mem/xctx
Last update of file: 2005/09/07 (YYYY/MM/DD) 2005-35/UP (last update)

Search statement 1

Query/Command : US6493896/PN

**** SS 1: Results 1**

Search statement 2

Query/Command : PRT FULL NONSTOP LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US6493896 B1 20021217 [US6493896]
TI - (B1) Brush head positioning system
PA - (B1) ALTO U S INC (US)
PA0 - Alto U.S. Inc., Chesterfield MO [US]
IN - (B1) CURTIS MARVIN (US); COURTNEY GERALD (US); KEAZER JAMES
(US); DEITERMAN LENARD (US); STUCHLIK WILLIAM (US)
AP - US62103400 20000721 [2000US-0621034]
PR - US62103400 20000721 [2000US-0621034]

US17731198 19981022 [1998US-0177311]

IC - (B1) A47L-011/16 A47L-011/283
PCL - ORIGINAL (O) : 015049100; CROSS-REFERENCE (X) : 015098000
DT - Corresponding document
CT - US5943724; US6042656; US6163915
STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
AB - An apparatus for use on a surface and responsive to an operator. A head assembly is adapted to carry a device for engaging the surface. An actuator raises and lowers the head assembly relative to the surface. A position control responsive to operator input indicates a head position of the device relative to the surface or range of head positions of the device relative to the surface. The head position or the range of head positions indicates a distance or range of distances, respectively, between the device and the surface. A controller responsive to the position control selectively actuates the actuator to maintain the device in the head position or within the range of head positions as indicated by the position control. As a result, a repeatable position or range of positions of the brush head is obtained, the relative engagement between the head assembly and surface is controlled and the treatment of the surface by the head assembly is controlled. Position control may be used in combination with torque control of motors driving brushes for engaging the surface. Position control may also be used in combination with a pressure control measuring the pressure between the brush head and the surface.
UP - 2003-02

1 / 1 LGST - ©EPO

PN - US6493896 B1 20021217 [US6493896]
AP - US62103400 20000721 [2000US-0621034]
ACT - 20001120 US/AS-A
ASSIGNMENT
OWNER: ALTO U.S. INC. 390 SOUTH WOODS MILL ROAD CHESTERFI;
EFFECTIVE DATE: 20001107
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:STUCHLIK,
WILLAIM;DEITERMAN, LENARD;CURTIS, MARVIN;AND
OTHERS;REEL/FRAME:011318/0051

20031223 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031010
UP - 2004-31

1 / 1 CRXX - ©CLAIMS/RRX

PN - 6,493,896 A 20021217 [US6493896]
PA - Alto U S Inc
ACT - 20031010 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031223
REISSUE REQUEST NUMBER: 10/684324

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1744

Reissue Patent Number:

Search statement 2

Query/Command : FILE INPADOC

PLUSPAT - Time in minutes : 1,35

The cost estimation below is based on Questel's
standard price list

	Estimated cost :	3.71 USD
Records displayed and billed :	1	
	Estimated cost :	1.40 USD
Cost estimated for the last database search :		5.11 USD
Estimated total session cost :		5.88 USD

LGST - Time in minutes : 0,05

The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.06 USD
Records displayed and billed :	1	
	Estimated cost :	0.65 USD
Legal-Status informations :	1	
	Estimated cost :	0.50 USD
Cost estimated for the last database search :		1.21 USD
Estimated total session cost :		7.09 USD

CRXX - Time in minutes : 0,02

The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.03 USD
Records displayed and billed :	1	
	Estimated cost :	5.70 USD
Legal-Status informations :	1	
	Estimated cost :	0.50 USD
Cost estimated for the last database search :		6.23 USD
Estimated total session cost :		13.32 USD

LITA - Time in minutes : 0,06

The cost estimation below is based on Questel's
standard price list

	Estimated cost :	0.14 USD
Cost estimated for the last database search :		0.14 USD
Estimated total session cost :		13.46 USD

Selected file: INPADOC

You are now connected to INPADOC

Covers 1968/1973 thru weekly updates (2005-36)

For information on content, (..)INFO INPD.

Search statement 1

Query/Command : FAM US6493896/PN

1 Patent Groups

**** SS 1: Results 7**

Search statement 2

Query/Command : FAMSTATE NONSTOP

1 / 7 INPADOC - ©INPADOC

PN - AT 297155 E 20050615 [ATE297155]
TI - BRSTENKOPFPOSITIONIERVORRICHTUNG
IN - STUHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
PA - ALTO U S INC [US]
AP - AT 1116752/01-EP 20010719 [2001EP-0116752]
PR - US 621034/00-A 20000721 [2000US-0621034]
IC - A47L-011/283; A47L-011/40

2 / 7 INPADOC - ©INPADOC

PN - CA 2353279 AA 20020121 [CA2353279]
TI - BRUSH HEAD POSITIONING SYSTEM
LA - ENG
IN - KEAZER JAMES [US]; CURTIS MARVIN [US]; COURTNEY GERALD [US]; STUHLIK WILLIAM [US]; DEITERMAN LENARD [US]
PA - ALTO U S INC [US]
AP - CA 2353279/01-A 20010719 [2001CA-2353279]
PR - US 621034/00-A 20000721 [2000US-0621034]
IC - A47L-011/28; A47L-011/283

1 / 1 LEGALI - ©EPO

PN - CA2353279 A1 20020121 [CA2353279]
AP - CA2353279 20010719 [2001CA-2353279]
ACTE - 20030820 CA/EEER-A [+] EXAMINATION REQUEST
EFFECTIVE DATE: 20030508
UP - 2003-47

3 / 7 INPADOC - ©INPADOC

PN - DE 60111306 C0 20050714 [DE60111306]
TI - Brstenkopfpositioniervorrichtung
IN - STUHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS

MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
PA - ALTO U S INC [US]
AP - DE 60111306/01-A 20010719 [2001DE-6011306]
PR - US 621034/00-A 20000721 [2000US-0621034]
IC - A47L-011/283; A47L-011/40

4 / 7 INPADOC - ©INPADOC

PN - EP 1174074 A2 20020123 [EP1174074]
TI - Brush head positioning system
 Systme de positionnement d'un support de brosse
 Brstenkopfpositioniervorrichtung
LA - ENG
IN - STUHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS
 MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
PA - ALTO U S INC [US]
AP - EP 01116752/01-A 20010719 [2001EP-0116752]
PR - US 621034/00-A 20000721 [2000US-0621034]
IC - A47L-011/283; A47L-011/40
DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC*
 NL* PT* SE* TR*

1 / 1 LEGALI - ©EPO

PN - EP1174074 A2 20020123 [EP1174074]EP1174074 A3 20040407 [EP1174074]
 EP1174074 B1 20050608 [EP1174074]
AP - EP01116752 20010719 [2001EP-0116752]
ACTE -
 20020123 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

 20020123 EP/AX-A [+]
 EXTENSION OF THE EUROPEAN PATENT TO
 AL;LT;LV;MK;RO;SI

 20040407 EP/AK-A [+]
 DESIGNATED CONTRACTING STATES:
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

 20040407 EP/AX-A [+]
 EXTENSION OF THE EUROPEAN PATENT TO
 AL LT LV MK RO SI

 20040407 EP/RIC1-A
 CLASSIFICATION (CORRECTION)
 7 A47L-011/283 A

20040407 EP/RIC1-A
 CLASSIFICATION (CORRECTION)
 7 A47L-011/40 B

20041110 EP/17P-A [+]
 REQUEST FOR EXAMINATION FILED
 EFFECTIVE DATE: 20040915

20041229 EP/AKX-A [+]
 PAYMENT OF DESIGNATION FEES
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20050608 EP/AK-A
 DESIGNATED CONTRACTING STATES:
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20050608 EP/REG-A; GB/FG4D
 GB: EUROPEAN PATENT GRANTED
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20050615 EP/REG-A; CH/EP [+]
 CH: ENTRY IN THE NATIONAL PHASE
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20050714 EP/REF-A
 CORRESPONDS TO:
 (DE 60111306 20050714 [DE60111306])

20050727 EP/REG-A; IE/FG4D
 IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
 <IE>

UP - 2005-31

5 / 7 INPADOC - ©INPADOC

PN - EP 1174074 A3 20040407 [EP1174074]
 TI - Brush head positioning system
 Systeme de positionnement d'un support de brosse
 Brstenkopfpositioniervorrichtung
 LA - ENG
 IN - STUCHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS
 MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
 PA - ALTO U S INC [US]
 AP - EP 01116752/01-A 20010719 [2001EP-0116752]
 PR - US 621034/00-A 20000721 [2000US-0621034]
 IC - A47L-011/283; A47L-011/40
 DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC*
 NL* PT* SE* TR*

1 / 1 LEGALI - ©EPO

PN - EP1174074 A2 20020123 [EP1174074]EP1174074 A3 20040407 [EP1174074]
EP1174074 B1 20050608 [EP1174074]

AP - EP01116752 20010719 [2001EP-0116752]

ACTE -

20020123 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EXTENSION OF THE EUROPEAN PATENT TO

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20040407 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20040407 EP/AX-A [+]

EXTENSION OF THE EUROPEAN PATENT TO

AL LT LV MK RO SI

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CLASSIFICATION (CORRECTION)

7 A47L-011/283 A

20040407 EP/RIC1-A

CLASSIFICATION (CORRECTION)

7 A47L-011/40 B

20041110 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 20040915

20041229 EP/AKX-A [+]

PAYMENT OF DESIGNATION FEES

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20050608 EP/AK-A

DESIGNATED CONTRACTING STATES:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20050608 EP/REG-A; GB/FG4D

GB: EUROPEAN PATENT GRANTED

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IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
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UP - 2005-31

6 / 7 INPADOC - ©INPADOC

PN - EP 1174074 B1 20050608 [EP1174074]
TI - Brush head positioning system
Système de positionnement d'un support de brosse
Brstenkopfpositioniervorrichtung
LA - ENG
IN - STUHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS
MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
PA - ALTO U S INC [US]
AP - EP 01116752/01-A 20010719 [2001EP-0116752]
PR - US 621034/00-A 20000721 [2000US-0621034]
IC - A47L-011/283; A47L-011/40
DS - AT* BE* CH* CY* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC*
NL* PT* SE* TR*

1 / 1 LEGALI - ©EPO

PN - EP1174074 A2 20020123 [EP1174074]EP1174074 A3 20040407 [EP1174074]
EP1174074 B1 20050608 [EP1174074]
AP - EP01116752 20010719 [2001EP-0116752]
ACTE - 20020123 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20020123 EP/AX-A [+]
EXTENSION OF THE EUROPEAN PATENT TO
AL;LT;LV;MK;RO;SI

20040407 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20040407 EP/AX-A [+]
EXTENSION OF THE EUROPEAN PATENT TO
AL LT LV MK RO SI

20040407 EP/RIC1-A
CLASSIFICATION (CORRECTION)

7 A47L-011/283 A

20040407 EP/RIC1-A
CLASSIFICATION (CORRECTION)
7 A47L-011/40 B

20041110 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 20040915

20041229 EP/AKX-A [+]
PAYMENT OF DESIGNATION FEES
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20050608 EP/AK-A
DESIGNATED CONTRACTING STATES:
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20050615 EP/REG-A; CH/EP [+]
CH: ENTRY IN THE NATIONAL PHASE
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20050714 EP/REF-A
CORRESPONDS TO:
(DE 60111306 20050714 [DE60111306])

20050727 EP/REG-A; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
<IE>

UP - 2005-31

7/7 INPADOC - ©INPADOC

PN - US 6493896 BA 20021217 [US6493896]
TI - BRUSH HEAD POSITIONING SYSTEM
IN - STUCHLIK WILLIAM [US]; DEITERMAN LENARD [US]; CURTIS
MARVIN [US]; COURTNEY GERALD [US]; KEAZER JAMES [US]
PA - ALTO U S INC [US]
AP - US 621034/00-A 20000721 [2000US-0621034]
PR - US 621034/00-A 20000721 [2000US-0621034]
US 177311/98-B2 19981022 [1998US-0177311]
IC - A47L-011/16; A47L-011/283

1/1 LEGALI - ©EPO

PN - US6493896 B1 20021217 [US6493896]
AP - US62103400 20000721 [2000US-0621034]
ACTE - 20001120 US/AS-A
ASSIGNMENT
OWNER: ALTO U.S. INC. 390 SOUTH WOODS MILL ROAD CHESTERFI;
EFFECTIVE DATE: 20001107
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:STUCHLIK,
WILLAIM;DEITERMAN, LENARD;CURTIS, MARVIN;AND
OTHERS;REEL/FRAME:011318/0051

20031223 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031010
UP - 2004-31

Search statement 2

PATNO IS 6493896

DATE: SEPTEMBER 13, 2005
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 6493896

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6493896 , December 17, 2002 , Brush head positioning system, Stuchlik, William - Springdale, Arkansas; Deiterman, Lenard - Springdale, Arkansas; Curtis, Marvin - Springdale, Arkansas; Courtney, Gerald - Springdale, Arkansas; Keazer, James - Springdale, Arkansas, 621034 (09), Alto U.S. Inc., Chesterfield, Missouri, 02, November 20, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., ALTO U.S. INC. 390 SOUTH WOODS MILL ROAD CHESTERFIELD MISSOURI 63017, Reel and Frame Number: 11318/0051

CORE TERMS: brush, floor, nut, switch, potentiometer, actuator, driving, pin, linear, sensor ...

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6493896

December 17, 2002

Brush head positioning system

REISSUE: October 10, 2003 - Reissue Application filed Ex. Gp.: 1744; Re. S.N.
10/684,324 (O.G. December 23, 2003)

APPL-NO: 621034 (09)

FILED-DATE: July 21, 2000

GRANTED-DATE: December 17, 2002

CORE TERMS: brush, floor, nut, switch, potentiometer, actuator, driving, pin,
linear, sensor ...

6493896 OR 6,493,896

Your search request has found no CASES.

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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Patent Search - Number: 6493896

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